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L8: Entry 1 of 4 File: USPT Sep 18, 2001

DOCUMENT-IDENTIFIER: US 6290976 B1
TITLE: Facial skin dermabrasion cleansing and conditioning composition

Detailed Description Paragraph Right (3):
A primary ingredient of this invention is an alpha alumina or corundum particle structure which possesses the facial skin dermabrading property which avoids the ripping of skin pores or the tearing of facial skin, unlike other products in prior art. This physical attribute is derived from use of a purer and more consistent sized form of corundum or alumina particles or powder which appears to eliminate substantial jagged edges of the particles or powder which are notoriously otherwise the cause of such facial skin abuse in prior art compounds. The uniform shape of each particle of corundum is sometimes referred to as that of a "block t" which is more uniform and less damaging to facial skin.

Current US Original Classification (1):
424/401

L8: Entry 3 of 4 File: USPT May 28, 1996

DOCUMENT-IDENTIFIER: US 5520917 A
TITLE: Materials in the form of colored spherical fine particles

Detailed Description Paragraph Right (79):
To the dispersion was added 1 ml of 1N ammonia water as a hydrolyzing agent for the tetraethoxysilane and triisopropyl oxide aluminum, and the mixture was heated in a thermostatic chamber at 60.degree. C. for 30 minutes while being treated by the machine to deposit fine silica particles and fine alumina particles (3:1) on the pigment surface.

Detailed Description Paragraph Right (89):
To the dispersion was added 1 ml of 1N ammonia water as a hydrolyzing agent for the tetraethoxysilane and triisopropyl oxide aluminum, and the mixture was heated in a thermostatic chamber at 60.degree. C. for 30 minutes while being treated by the machine to deposit fine silica particles and fine alumina particles (3:1) on the pigment surface.

Current US Original Classification (1):
424/401

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L10: Entry 6 of 6 File: DWPI Feb 20, 1986

DERWENT-ACC-NO: 1986-090693
DERWENT-WEEK: 198614

TITLE: Prodn. of alumina particles with good wear resistance - by firing alumina particles treated with aq. soln. contg. orthophosphate ions

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SHOKUBAI KASEI KOGYO KK	NISH

PRIORITY-DATA: 1984JP-0154129 (July 26, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61036120 A	February 20, 1986		004	

INT-CL (IPC): B01J 27/18; B01J 32/00; C01F 7/02

ABSTRACTED-PUB-NO: JP61036120A
BASIC-ABSTRACT:

Alumina particles, produced by firing aluminium hydroxide of 20-80 microns average size obtd. by the Bayer process, are contacted with an aq. soln. contg. phosphoric ion (PO4(3-)), then refired.

Amt. of P introduced by contact with the aq. soln. contg. PO4(3-) is 2-20 wt.% as P2O5 of the alumina particles. The aq. soln. contg. PO4(3-) is phosphoric acid, ammonium phosphate, phosphate or ammonium hydrogenphosphate of aq. soln. or their mixed soln..

USE/ADVANTAGE - The alumina particles are used as fluid catalyst carriers, adsorbents or heat mediums. They have good wear resistance comparable with alumina particles produced by conventional methods.

In an example, 3,000 g alumina particles produced by firing Al hydroxide of 37 microns average size at 600 deg.C for 2 hrs. were added to 990 ml phosphoric acid aq. soln. contg. 335 g 85% phosphoric acid. The mixt. was then dried at 120 deg.C for 17 hrs. and fired at 600 deg.C for 2 hrs. to obtain alumina particles. The alumina particles contained 6.9 wt.% P2O5 and had specific surface area of 75 m2/g, apparent bulk density of 0.79 g/ml, average particle size of 57 microns and wear loss of 0.33 wt.%/hr.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE ALUMINA PARTICLE WEAR RESISTANCE FIRE ALUMINA PARTICLE TREAT AQUEOUS SOLUTION CONTAIN ORTHOPHOSPHATE ION

ADDL-INDEXING-TERMS:
PHOSPHORIC ACID CATALYST CARRY ADSORB HEAT MEDIUM

DERWENT-CLASS: E33 J04 L02

CPI-CODES: E31-K05; E34-C01; J01-D01; J01-E03C; J04-E03; J08-D06; L02-A02;

CHEMICAL-CODES:

Chemical Indexing M3 *01*
Fragmentation Code
A313 A940 C108 C550 C730 C801 C802 C803 C804 C805
C807 M411 M720 M903 M910 N163 N513 Q423 Q453 R032

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1544P; 1544S ; 1734S ; 1787S ; 1913S

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1986-038496

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Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Term: l1 near l3

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Search History

DATE: Tuesday, July 02, 2002 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ			
L10	l1 near l3	6	L10
L9	l1 same l3	87	L9
L8	l1 and ((424/401)!.CCLS.)	4	L8
L7	5017132.pn.	3	L7
L6	517132.pn.	5	L6
L5	l3 and L4	1	L5
L4	l1 near l2	19	L4
L3	phosphoric or p2o5	167659	L3
L2	flake or flaky	52909	L2
L1	alumina particle	7169	L1

END OF SEARCH HISTORY